



## **CM52-BGM-II Architectural Specifications**

The loudspeaker shall consist of one 134 mm (5.25 in.) low-frequency transducer and one 19 mm (0.75 in.) high-frequency transducer with a frequency-dividing network installed in a sealed enclosure. The low-frequency voice coil diameter shall be 12.7 mm (0.5 in.). The low-frequency transducer shall have a polypropylene cone material with a rubber surround. The high-frequency transducer shall be constructed of silk material using a balanced-dome configuration.

Performance specifications of a typical production unit shall be as follows: Useable frequency range shall extend from 65 Hz - 22 kHz (-10 dB). The loudspeaker shall be available with selectable 25/70.7/100-volt and transformer bypass tap switch. The frequency dividing network shall have a crossover frequency of 5.0 kHz. Rated power capacity of the components and network shall be at least 20 watts continuous RMS and conform to EIA-426-B testing. Maximum continuous output at 1 meter shall be at least 100.5 dB.

The backcan shall be constructed of galvanized steel with an ABS plastic baffle. The grille shall be constructed of magnetic painted steel. Shipped complete with UL-listed flex conduit connector, color coded tile bridge (to match color-coded backcan), grille, and paint shield, the integrated in-ceiling speaker is engineered for high performance and rapid installation in plenum spaces. The unit incorporates three additional attachment points for added security, or where required by code.

Installation for the speaker shall be by two-screw blind-mount constant-tension fixed-wing assembly and shall attach to ceiling thicknesses ranging from 0.035 inches to 1.6 inches. The external wiring shall be via 4-position ceramic terminal strip, accepting up to 8 gauge wire.

The maximum backcan dimension shall be no more than 146.1 mm (5.75 in.) in height by 245.6 mm (9.67 in.) in diameter. The maximum visible dimensions shall be no more than 8.4 mm (0.33 in.) in height by 298.5 mm (11.75 in.) in diameter. The unit is factory preset to the 20-watt setting in the 70.7-volt operating mode, with a tap switch located on the front baffle.

The system shall be the SoundTube CM52-BGM-II for both low- and high-impedance applications.